

CEMP-ET

DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
Washington, DC 20314-1000

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Technical Letter
No. 1110-3-503

15 September 1999

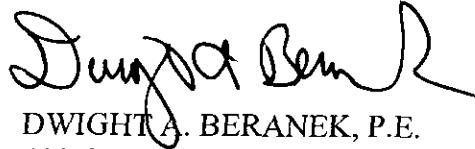
EXPIRES 30 SEPTEMBER 2004
Engineering and Design
USE OF WASTE MATERIALS
IN PAVEMENT CONSTRUCTION

1. Purpose. This Engineer Technical Letter (ETL) provides general information on the types and uses of waste materials in pavement construction, including environmental considerations.
2. Applicability. This ETL applies to all HQUSACE elements and USACE commands having military construction responsibility.
3. References. Appendix A contains a list of referenced and related publications.
4. Distribution. Approved for public release; distribution is unlimited.
5. Background.
 - a. The safe disposal of waste materials is an increasingly economic and environmental concern in the United States and around the world. When applicable, the inclusion of waste materials into pavement construction materials is a desirable goal. However, due to the importance of roads to commerce and personal mobility, the pavement structure should not become simply a waste disposal area. Waste materials that are included in the construction of the pavement must meet certain engineering, environmental, and economic criteria. The waste material must not have an unacceptable adverse effect on the performance of the pavement. The waste material should not have unacceptable health concerns to workers or users either during construction or while in use. The waste material should be properly contained within the pavement structure thereby posing no threat to the environment. The use of waste materials must be economically sound both initially and over the life of the pavement.
 - b. This ETL provides general information on the types, uses, and environmental considerations of waste materials in pavement construction. The information provided is for the use of waste materials in various applications of pavement construction.
6. Action Taken. Pending publication of permanent guidance, Appendix B of this ETL will be used to assist HQUSACE, major subordinate commands, district offices, and FOA in the design and construction of pavements using waste materials.

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7. Implementation. This letter will have routine application for all future military projects as defined in paragraph 8c, ER 1110-345-100.

FOR THE COMMANDER:



DWIGHT A. BERANEK, P.E.

Chief, Engineering and Construction Division

Directorate of Military Programs

2 Appendices

APP A – References

APP B – Use of Waste Materials
in Pavement Construction